

REMARKS

Claims 1-35 are pending in this application. Claims 1-35 have been rejected. Claims 1, 10, 19, 23-27 and 31 have been amended. No new matter has been added. Applicants submit that all of the pending claims are in condition for allowance. Applicants respectfully request reconsideration of the outstanding rejections and allowance of all pending claims in view of the reasons set forth below.

I. Claim Rejections

Claims 1-5, 9-14, 18-29 and 31-34 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Farrell et al. (U.S. Patent 6,269,475; hereafter Farrell) in view of Aptus et al. (U.S. Patent 7,114,149; hereafter Aptus), (Office Action, p. 3, § 5).

Claims 6-8, 15-17 and 30 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Farrell in view of Aptus in further view of Yang (U.S. Pub. No. 20020055891; hereafter Yang), (Office Action, p. 8, § 6).

Claim 35 has been rejected under 35 U.S.C. § 103(a) as being unpatentable over Farrell in view of Aptus in further view of Fischer (U.S. Pub. No. 20020099582; hereafter Fischer), (Office Action, p. 9, § 7).

II. Claim Amendments

Claim 1 has been amended to specify that the source code is generated “from” a block diagram model and to correct typographical errors. Claim 10 has been amended to specify that the source code is generated “from” a block diagram model and to recite “means for providing a hypertext link in a listing of the generated source code.” Claim 19 has been amended to specify that the source code is generated “from” a block diagram model and to recite “a listing” instead of “the listing.” Claim 23 has been amended to recite that it is a system claim and to recite that the processor and memory are configured to “provide a hypertext link in a listing of the generated source code.” Claims 24-26 have been amended to recite “the system of claim 23” instead of “the processor and memory of claim 23.” Claim 27 has been amended to clarify that “the graphical model is a block diagram model.” Claim 31 has been amended to specify that the source code is generated “from” a block diagram model and to recite “generating hypertext links

in a listing of the generated source code in order to associate elements of the source code with elements of the executable block diagram model.

III. Claim Rejections under 35 U.S.C. § 103(a)

A. Claims 1-5, 9-14, 18-29 and 31-34

Claims 1-5, 9-14, 18-29 and 31-34 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Farrell in view of Aptus, (Office Action, p. 3, § 5). Applicants respectfully traverse this rejection.

1. Claims 1-5 and 9

Applicants respectfully suggest that the cited combination of references fails to disclose or suggest providing a hypertext link **in a listing of the generated source code** to associate an element of the generated source code with an element of the block diagram model. The Examiner cited Farrell as disclosing links that associate an element of the generated source code with an element of the block diagram model, (Office Action, p. 3, § 5). The Examiner correctly notes that Farrell does not disclose providing a hypertext link in a listing of the generated source code but cites Aptus as teaching this feature of claim 1, (Office Action, p. 3, § 5). Applicants respectfully traverse the finding that Aptus teaches providing a hypertext link in a listing of the generated source code.

Aptus does not disclose or suggest “providing a hypertext link **in a listing of the generated source code**,” as required by Applicants’ claim 1. Instead, Aptus discusses generating documentation that describes the source code, (Aptus, Col. 27, lines 2-3). The documentation of Aptus includes a diagram portion and a text portion, (Aptus, Col. 5, lines 44-45). Aptus discusses hypertext markup language (HTML) links between the diagram portion and the text portion, (Aptus, Col. 27, lines 3-6). However, the HTML links are not provided **in a listing of the generated source code**. As an example of the Aptus’ system, Aptus depicts source code with no hypertext links in Figure 13. Aptus further depicts source code in Figure 24 and the corresponding HTML documentation which has a link in a different figure, see Figure 25. In contrast, the present application provides hypertext links “**in a listing of the generated**

source code.” Figure 5 of the present application illustrates the hypertext links **in** the generated code itself. Accordingly, Applicants respectfully submit that neither Aptus or Farrell discloses or suggests the providing of a hypertext link in the generated source code that associates an element of the source code with an element of a block diagram model.

Furthermore, the Examiner cited Farrell as disclosing or suggesting the limitation of “generating source code **corresponding to** a block diagram model” (in the previous version of claim 1). Applicants have amended claim 1 herein to specify that the source code is generated **from** a block diagram model in order to clarify that the source code not only corresponds to the block diagram model but that it is generated **from** the block diagram model. Applicants respectfully suggests that Farrell clearly fails to disclose or suggest this amended limitation as the object model in Farrell is generated from the source code rather than the source code being generated from a block diagram model as recited in Applicants’ claims (Applicants do not address the issue at this time of whether the object model is the equivalent to the claimed “block diagram model” as the source code in Farrell is clearly not generated from the object model). Applicants respectfully direct the Examiner’s attention to Col. 5, lines 46-47: “**From source code 11**, an object model 12 of source code 11 is created.[emphasis added]”

Applicants also note that Aptus fails to address the failure of Farrell to disclose the generation of source code from a block diagram model as Aptus discusses generating a diagrammatic documentation **from** the language-neutral representation of the source code (Aptus, Col. 5, lines 52-54). Hence Aptus discusses creating first the source code, then the graphical documentation. In contrast, Applicants’ claim 1 recites the generation of the source code from a block diagram model.

Applicant respectfully submits that Farrell and Aptus, alone or in any reasonable combination, do not disclose or suggest “providing a hypertext link in a listing of the generated source code,” as required by claim 1. Claims 2-5 and 9 depend from claim 1 and, as such, incorporate each and every element of claim 1. Farrell and Aptus, alone or in any reasonable combination, fail to teach or suggest the features of claims 2-5 and 9 for at least the reasons argued above with respect to claim 1. Applicants respectfully request the Examiner to reconsider and withdraw the rejection of claims 1-5 and 9 under 35 U.S.C. § 103(a).

2. Claims 10-14 and 18-22

Independent claims 10 and 19 and 23 both recite “generating source code from a block diagram model” and “providing a hypertext link in a listing of the generated source code.” As presented above regarding claim 1, Farrell and Aptus, alone or in any reasonable combination, do not disclose or suggest “generating source code from a block diagram model” or “providing a hypertext link in a listing of the generated source code,” as required by independent claims 10 and 19. Applicants respectfully submit that corresponding dependent claims 11-14 and 18 and 20-22 respectively, incorporate each and every element of independent claims 10 and 19 upon which they depend. Applicants respectfully request the Examiner to reconsider and withdraw the rejection of claims 10-14 and 18-22 under 35 U.S.C. § 103(a).

3. Claims 23-26

Independent claim 23 has been amended to recite:

A computing system comprising:

a processor and
a memory,

wherein the processor and memory are configured to generate source code corresponding to a block diagram model and provide a hypertext link in a listing of the generated source code to associate an element of the generated source code with an element of the block diagram model.

As noted above during the discussion of claim 1, the cited combination of references do not disclose or suggest the providing a hypertext link in a listing of the generated source code as required by claim 23. Accordingly, Applicants request the allowance of claim 23. Claims 24-26 depend upon claim 23 and Applicants therefore also request the allowance of claims 24-26.

4. Claims 27-29

Amended claim 27 recites among other things:

“providing source code identifying an element of a graphical model;
generating a document comprising information about the source code; and
providing, in the document, a hyperlink referencing the element of the graphical model,
wherein the graphical model is a block diagram model.”

Applicants claim thus indicates that the source code identifies an element of a graphical model. This source code is then used to generate a document with information about the source code. The generated document includes a hyperlink referencing the graphical model that was identified in the source code. In contrast, as noted above during the discussion of claim 1, Aptus discusses hypertext markup language (HTML) links between the diagram portion and the text portion of a document describing source code. These portions are both created based upon the source code. As a result, in Aptus, the hyperlink in the generated document can not be to the same graphical model that was identified in the source code as the graphical model didn't exist (as it was later generated based on the source code). Aptus thus fails to disclose all of the limitations of Applicants' claim 27. Applicants therefore request the allowance of claim 27.

Claims 28 and 29 depend from claim 27 and, as such, incorporate each and every element of claim 27. Accordingly, Applicants respectfully request the Examiner to reconsider and withdraw the rejection of claims 27-29 under 35 U.S.C. § 103(a).

5. Claims 31-34

Amended claim 31 recites “generating source code from a block diagram model” and “generating hypertext links **in** a listing of the generated source code.” As presented above with regard to claim 1, Farrell and Aptus, alone or in any reasonable combination, do not teach or suggest generating source code from a block diagram model or generating “hypertext links **in** a listing of the generated source code,” as required by independent claim 31. Claims 32-34 depend from claim 31 and, as such, incorporate each and every element of claim 31. Applicants respectfully submit that dependent claims incorporate each and every element of the independent

claim upon which they depend. Applicants therefore respectfully request the Examiner to reconsider and withdraw the rejection of claims 31-34 under 35 U.S.C. § 103(a).

B. Claims 6-8, 15-17 and 30

Claims 6-8 and 15-17 and 30 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Farrell in view of Aptus in further view of Yang, (Office Action, p. 8, § 6). Applicants respectfully traverse this rejection.

1. Claims 6-8 and 15-17

Claims 6-8 and 15-17 depend from independent claims 1 and 10, respectively and therefore incorporate each and every element of the independent claims upon which they depend. Claims 1 and 10 recite “generating source code from a block diagram model” and “providing a hypertext link **in** a listing of the generated source code.” As presented above, Farrell and Aptus, alone or in any reasonable combination, do not teach or suggest “providing a hypertext link **in** a listing of the generated source code.” Yang fails at curing the shortcomings of Farrell and Aptus regarding these claim features.

Yang discusses an electronic catalogue utilizing 3D image display to provide a researching method and researching system for interests in commercial goods, ([0001]). Yang discusses that the electronic catalogue documents may be prepared in Markup languages such as HTML, XML and SMGL, ([0078]). Yang fails to teach or suggest generating source code from a block diagram model and providing a hypertext link **in a listing of the generated source code** to associate an element of the generated source code with an element of the block diagram model.

For at least the aforementioned reasons, Farrell, Aptus and Yang, alone or in any reasonable combination, do not teach or suggest all the elements of claims 1 and 10. Applicants respectfully submit that dependent claims also recite patentable subject-matter. Accordingly, Applicants respectfully request the Examiner to reconsider and withdraw the Examiner’s rejection of claims 6-8 and 15-17 under 35 U.S.C. § 103(a).

2. Claim 30

Claim 30 depends from claim 27 and, as such, incorporates each and every element of claim 27. Claim 27 recites providing, in the document, “a hyperlink referencing the element of the graphical model, **wherein the graphical model is a block diagram model.**” As presented above, Farrell and Aptus, alone or in any reasonable combination, do not teach or suggest providing [in a generated document comprising information about the source code identifying an element of a graphical model] a hypertext link referencing an element of the graphical model, **wherein the graphical model is a block diagram model.** Yang fails at curing the shortcomings of Farrell and Aptus regarding this claim feature. Yang fails to teach or suggest generating a document that includes information about the source code, providing in the document, a hyperlink referencing the element of the graphical model, **wherein the graphical model is a block diagram model.** Farrell, Aptus and Yang, alone or in any reasonable combination, do not teach or suggest all the elements of claim 27. Applicants respectfully submit that dependent claim 30 also recites patentable subject-matter. Accordingly, Applicants respectfully request the Examiner to reconsider and withdraw the Examiner’s rejection of claim 30 under 35 U.S.C. § 103(a).

C. Claim 35

Claim 35 has been rejected under 35 U.S.C. § 103(a) as being unpatentable over Farrell in view of Aptus in further view of Fischer, (Office Action, p. 9, § 7). Applicants respectfully traverse this rejection.

Claim 35 depends from independent claim 1 and, as such, incorporates each and every element of claim 1. Claim 1 recites “providing a hypertext link in a listing of the generated source code.” As presented above, Farrell and Aptus, alone or in any reasonable combination, do not teach or suggest “providing a hypertext link in a listing of the generated source code.” Fischer fails at curing the shortcomings of Farrell and Aptus regarding this claim feature.

Fischer discusses a content transformer that transforms network content, such as Web pages, so that the content can be displayed on any type of user device that is communicatively coupled to a computer network, ([0008]). During the transformation of content, the content transformer replaces one or more original links on the Web page with corresponding surrogate

links. The surrogate link contains an identifier code in place of a resource locator contained in the original link, ([0009]). Fischer fails to teach or suggest “generating source code corresponding to a block diagram model and providing a hypertext link in a listing of the generated source code to associate an element of the generated source code with an element of the block diagram model,” as required by claim 1.

For at least the aforementioned reasons, Farrell, Aptus and Fischer, alone or in any reasonable combination, do not teach or suggest all the elements of claim 1. Therefore, Applicants respectfully submit that dependent claim 35 also recites patentable subject-matter. Accordingly, Applicants respectfully request the Examiner to reconsider and withdraw the Examiner’s rejection of claim 35 under 35 U.S.C. § 103(a).

CONCLUSION

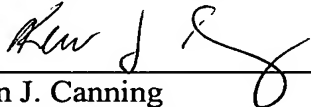
In view of the above comments, Applicants believe the pending application is in condition for allowance and urges the Examiner to pass the claims to allowance. Should the Examiner feel that a teleconference would expedite the prosecution of this application, the Examiner is urged to contact the Applicants' attorney at (617) 227-7400.

Please charge any shortage or credit any overpayment of fees to our Deposit Account No. 12-0080, under Order No. MWS-042RCE. In the event that a petition for an extension of time is required to be submitted herewith, and the requisite petition does not accompany this response, the undersigned hereby petitions under 37 C.F.R. § 1.136(a) for an extension of time for as many months as are required to render this submission timely. Any fee due is authorized to be charged to the aforementioned Deposit Account.

In view of the above amendment, Applicants believe the pending application is in condition for allowance.

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Respectfully submitted,

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